



Launch Mission Execution Forecast



Mission: Falcon 9 NROL-108

Issued: 18 Dec 2020 / 0800L (1300Z)

Valid: 19 Dec 2020 / 0900 – 1200L (1400 – 1700Z)

Forecast Discussion: Today will be a chilly one across Central Florida with mostly clear skies and gusty northerly winds. On Saturday, winds will become easterly and weaken as the high-pressure center moves north towards the Mid-Atlantic. These onshore winds will bring clouds that develop over the warmer waters towards the Space Coast. The primary weather concern for an attempt Saturday is cumulus clouds associated with these coastal showers.

On Sunday, a low-pressure system will move into the northern Gulf of Mexico, bringing clouds to Central Florida as it moves towards the peninsula. These clouds will increase in coverage and thickness through the day Sunday. The primary weather concern for a Sunday attempt is the Thick Cloud Layer Rule.

		Probability of Violating Weather Constraints					
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low		
	Temp/Humidity: 64°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 090° 15-20 mph	Cumulus	Scattered	3,000	8,000	Solar Activity: Low		
		Probability of Violating Weather Constraints					
24-Hour Delay	30%	Primary Concerns: Thick Cloud Layer Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: Isold Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low		
	Temp/Humidity: 68°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 220° 10-15 mph	Altostratus	Scattered	10,000	14,000	Solar Activity: Low		
<p><i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.</i></p>							
Next Forecast Will Be Issued		As Required					